

CLAIMS

1. A device for executing a hair-transplanting procedure, of harvesting a hair graft from a bald area in a scalp and then implanting the hair graft into a bald area, in series, comprising:

10 first cutting member affixed to a front part of the present device and having an elongate and hollow shape, wherein the first cutting member has a blade of which the surface ("imaginary surface") inclines toward a side of the present member, wherein a hair graft is cut by the blade and then is introduced into the present member;

15 second cutting member disposed to move forward/backward (or revolve) in the first cutting member and having an elongate and hollow shape, wherein the second cutting member has a blade of which the surface ("imaginary surface") cuts a bottom portion of the hair graft having been introduced into the present device and then meets the blade surface of the first cutting member, as the second cutting member moves forward;

20 extrusion member disposed to move forward/backward in the second cutting member and having an elongate shape, wherein the extrusion member pushes out the hair graft loaded in the present device through an entrance of the blade surface of the first cutting member, as the extrusion member moves forward;

25 and,

housing forming an outward shape and providing an induction road for movements of the second cutting member and the extrusion member.

5 2. The device according to claim 1, wherein the first cutting member is made in
a cylindrical form, and the blade surface which forms the entrance of the present
member inclines toward the side of the cylindrical member, and the opposite side of the
cylindrical member is gently bent to be extended toward the above side (which the
blade surface faces), and a cross-sectional shape of the blade surface is ellipse or circle;
10 and

 wherein the second cutting member is made in a cylindrical form, and the
direction of the blade surface of the cylindrical member is approximately opposite to the
direction of the blade surface of the first cutting member.

15 3. The device according to claim 1, wherein the axis of the blade surface of the
first cutting member inclines a little, such that this blade surface is seen a little from the
front sight of the present device; the second cutting member parts from an imaginary
extended line of the side of the first cutting member, to the extent that the end of the
first cutting member parts from the imaginary extended line of the side thereof, whereby
20 the end of the first cutting member can ultimately meet the end of the second cutting
member when the latter moves forward.

 4. The device according to claim 1, the first cutting member is made in a
cylindrical form, and an end of the first cutting member is bent to an central axis
25 thereof; and the second cutting member, disposed in the first cutting member, has the
same shape as the first cutting member, whereby an entrance of the first cutting member
becomes opened when each blade surface of both members is in the same position, and
the entrance becomes closed as the second cutting member revolves.

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5. The device according to claim 1, the extrusion member is made of flexible materials, and an end thereof protrudes a little from an entrance of the first cutting member when it moves forward fully.

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6. The device according to one of claims 1 through 5, wherein

the first cutting member is affixed in the conical front part of the housing;

the second cutting member is supported by a first spring installed in the conical front part, and is connected to a first operating handle disposed at the middle of a body of the housing; and

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the extrusion member is supported by a second spring installed in the body, and is connected to a second operating handle disposed at the rear of the body.

7. The device according to one of claims 1 through 5, wherein

the first cutting member is affixed in the conical front part of the housing,

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the second cutting member is supported by a first spring installed in the conical front part, and is connected to an operating handle disposed at the middle of a body of the housing, wherein a rear portion of the operating handle is extended to a power transmitting member;

the extrusion member is supported by a second spring installed between a connecting axis to the operating handle and a middle portion of the body, and is extended to the power transmitting member; and

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the power transmitting member comprises a gear which revolves with its axis affixed in the body, wherein the gear engages with a thread which is formed on

5 the bottom of a rear extension part of the operating handle, and a thread which is formed on a top of a rear extension part of the extrusion member, respectively.

8. The device according to one of claims 1 through 5, wherein
the first cutting member is affixed in the conical front part;
10 the second cutting member is supported by a first spring installed in the conical front part, wherein triangle members are installed on the second cutting member at the position corresponding to a first operating handle disposed on the middle of a body of the housing, wherein a perpendicular face of the first triangle is arranged forwardly;
15 the extrusion member is supported by a second spring installed in the middle of the body, and is connected to a second operating handle disposed at the rear of the body; and
the first operating handle includes second triangle members, wherein a slope face of the second triangle member is sliding contact with a slope face of the
20 first triangle member.

9. The device according to one of claims 1 through 5, wherein
the first cutting member is affixed in the conical front part;
the second cutting member includes an extension part at the rear thereof,
25 wherein an inner surface of the extension part has a thread engaged with a power-transmitting member linked to an electric motor;
the extrusion member includes a thread engaged with the power-transmitting member on an outer surface thereof; and

5 the power-transmitting member includes a thread engaged with the thread of the extension part, and a thread engaged with the thread of the extrusion member, wherein the two threads of the power-transmitting member are formed at the opposite direction to each other.

10 10. A device, for harvesting tissues from human body for a histo-biopsy, comprising elements in one of claims 1 through 9.